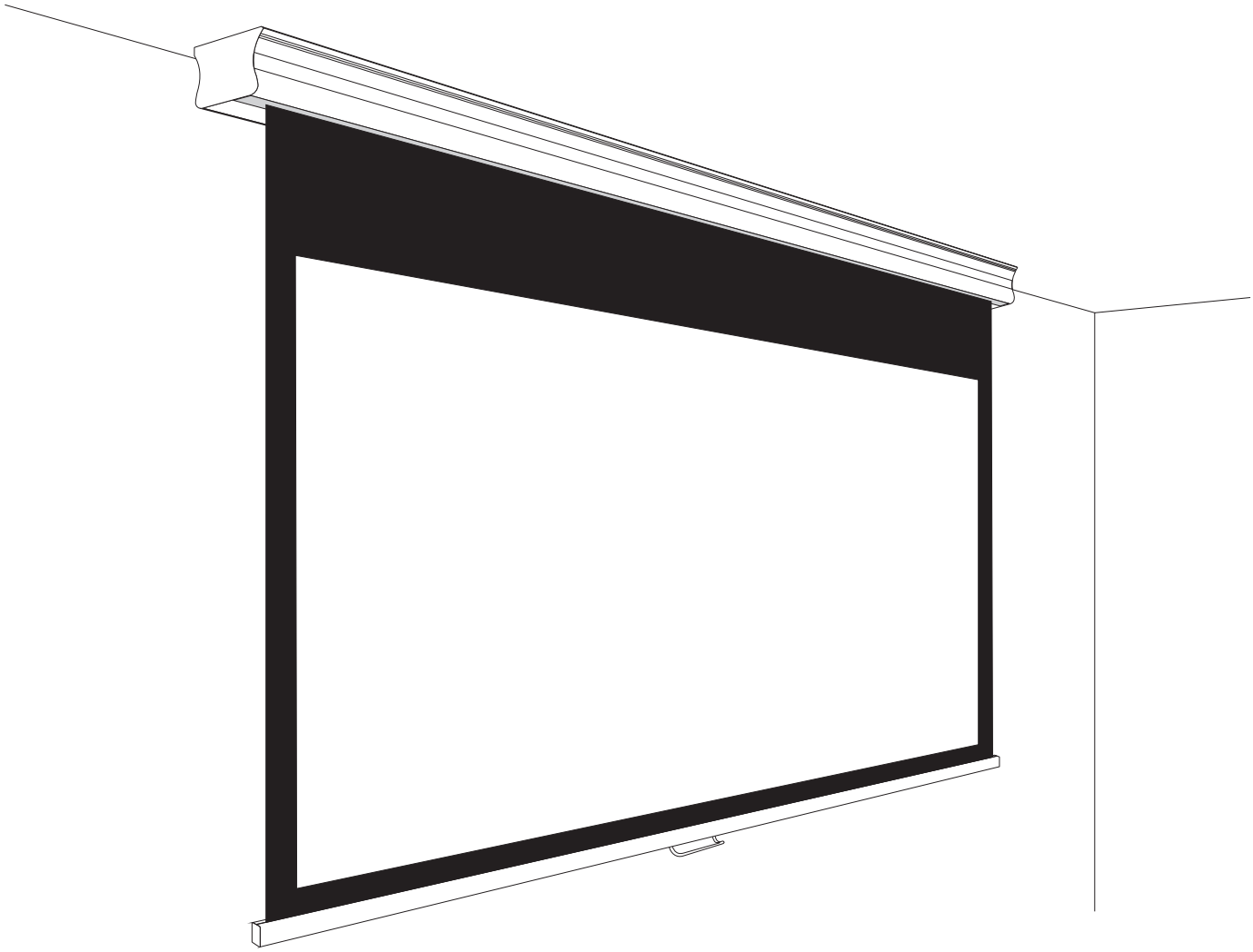
Manually operated projection screen

Avers Cirrus X



AVERS SCREENS

User's manual

CE

Read these instructions carefully before operating the screen.

Dear Customer,

Thank you very much for the purchase of our product. The manual booklet contains all operation information you may require to install properly and operate the screen. We hope it will help you to get the most performance and enjoyment of your new screen. Enjoy time with the **Avers Screens** product.

SAFETY INFORMATION

NOTICE: Important safety information.

Follow the instructions described in the operating manual for safety reasons. After reading the manual, please store it in a safe place just in case you need it in the future.

Table of contents:

1. Safety rules
    1.1. Declaration of Conformity CE

2. Product specification
    2.1. Contents of package
    2.2. Technical data

3. Screen installation
    3.1. Installation directions
    3.2. Ceiling installation
    3.3. Wall installation

4. Screen operation
    4.1 Manual operation
    4.2 Screen maintenance
    4.3 Before asking for service

5. Warranty conditions

1. SAFETY RULES

SAFETY INFORMATION

NOTICE: Important safety information. It is important for the safety of persons to follow these instructions. After reading the manual, please save it just in case of need in the future

- Frequently examine the screen installation for imbalance and signs of wear or damage to cables. Do not use if repair or adjustment is necessary.
- Do not attach any objects to the screen's bottom bar. Screen damage and/or person injury danger.
- All installation work should be carried out by the qualified technician.
- Improper installation of the screen can cause device damage or health breakdown.
- Ceiling/wall installation can be done with the originally supplied mounting brackets dedicated for this model only.
- Always follow the instructions described in the operating manual.

1.1. Declaration of Conformity CE

AVERS SCREENS

Manufacturer's Declaration of ConformityCE

AVERS Screens Sp. z o.o.
Under it's own responsibility declares:

All screensand accessories mentioned below are manufactured in Polandaccording to the essential safety requirements of Council Directive 98/79/WE

Projection screens: Stratus, AkuStratus, Focus, Cumulus X, Solar, Solaris, Contour, Altus, Cirrus CL, Cirrus X, Cirrus X crank
Projector mount brackets: Alumount, Promount, SimpleMount, Prolift

The above mentioned products are in conformity with the European Directives and especially with the norms:

PN-EN 55014-1:2007(U)
PN-EN 50082-1:1997
PN-EN 60335-1:2004
PN-EN 61000-3-2:2007
PN-EN 61000-3-3:1997
IEC 60335-2-97:2007

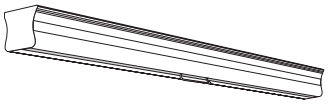
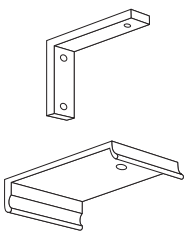
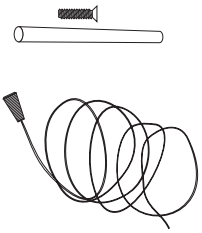
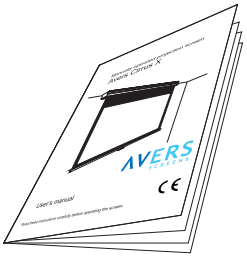
CE

2. Product specification

Manually operated projection screens with spring rolling mechanism designed for fixed installation at projection systems for business presentations and/or home cinema applications. The screen's spring retracting mechanism has integrated safety break feature. It automatically limits the screen's uncontrolled retracting speed and saves screen from damage caused with incidental fabrics self retracting. Best picture quality can be reached when the selection of the projection surface type and size will be optimal for the, projection device (projector) and projection conditions at the planed installation.

2.1. Contents of packaging

Please, check carefully if any physical damage of the screen has not happen during transportation.
Inspect the package for all accessories presented below:

 Screen x 1	 x 2 x 2 Installation brackets	 x 2 x 1 Installation accessories	 User's Manual x 1

2.2 Technical Data

Projection fabrics characteristics:

- Matt White (MW) – a special screen dedicated polyester fabric double side covered with vinyl, black back surface and white front (projection) surface, recommended for application with DLP and LCD multimedia projectors. Neutral color of the surface enables projection from any directions. Gain: 1.0, viewing angle: 150 degrees, thickness: 0,35 mm.
- Matt Grey (MG) – a special screen dedicated polyester fabric double side covered with vinyl, black back surface and grey front (projection) surface, recommended for application with high brightness DLP and LCD multimedia projectors. The surface offers deeper level of black and more realistic rich dark colors recognized as a feeling of higher image contrast. Recommended for home cinema applications. Gain: 0,8. viewing angle: 150 degrees, thickness: 0,35 mm.
- White Ice (WI) – White color vinyl mono foil, matt front size (projection), gloss rear side, dedicated for projection with LCD and DLP projectors. Fabrics with slightly directional characteristics dedicated for business presentations. Fabrics of screens bigger than 200cm in height is welded with 2 parts, welding line remains invisible during projection. Gain 1,2 , viewing angle 120 degrees, thickness 0,4mm.
- New Coral (NC) – Rear projection white vinyl mono foil, gloss front side (projection), matt rear side, dedicated for rear projection with LCD and DLP projectors. Recommended for business presentations due to directional optical characteristics of the fabrics. Fabrics of screens bigger than 200cm in height is welded with 2 parts, welding line remains invisible during projection. Gain 3,2 , viewing angle 90 degrees, thickness 0,6mm.

Dimensions of projection screens.

Screen width [cm]	Viewing area size [cm]	Screen aspect ratio	Screen case size W x H x D [cm]	Projection fabrics max. length [cm]	Top belt width [cm]	Version *)	Net weigth**)
180	170 x 95,6	16:9	187 x 12,3 x 12,8	141	35	BT	6,0
	170 x 127,5	4:3		153	8	BB	6,2
	170 x 95,6	16:9		123,5	8	BB	5,9
	180 x 118,2	16:9		123,5	-	-	5,9
	180 x 135	4:3		150	-	-	6,2
	180 x 180	1:1		190	-	-	6,5
210	200 x 112,5	16:9	217 x 12,3 x 12,8	158	35	BT	7,6
	200 x 150	4:3		168	8	BB	7,7
	200 x 112,5	16:9		130,5	8	BB	7,4
	210 x 118,2	16:9		130,5	-	-	7,4
	210 x 157,5	4:3		168	-	-	7,7
	210 x 210	1:1		220	-	-	8,0
240	230 x 129,5	16:9	247 x 12,3 x 12,8	174,5	35	BT	8,5
	230 x 172,5	4:3		190	8	BB	8,7
	230 x 129,5	16:9		147	8	BB	8,4
	240 x 135	16:9		147	-	-	8,4
	240 x 180	4:3		190	-	-	8,7
	240 x 240	1:1		250	-	-	10,0
270	260 x 146,3	16:9	277 x 12,3 x 12,8	195	35	BT	11,6
	260 x 195	4:3		212,5	8	BB	11,9
	260 x 146,3	16:9		161	8	BB	11,3
	270 x 151,9	16:9		161	-	-	11,3
	270 x 202,5	4:3		212,5	-	-	11,9
300	290 x 163,1	16:9	307 x 12,3 x 12,8	215	35	BT	13,8
	290 x 217,5	4:3		235	8	BB	14,6
	290 x 163,1	16:9		179	8	BB	13,5
	300 x 168,8	16:9		179	-	-	13,5
	300 x 225	4:3		235	-	-	14,6

*) BT and BB versions are available with MW, MG or WI fabrics

**) approximate value for the screen with Matt White fabrics

Version BB – 5 cm width black border surrounding the viewing area

Version BT – 5 cm width black border surrounding the viewing area and additional black top 30 cm above the top black border.

3. Screen installation

3.1. Installation precautions

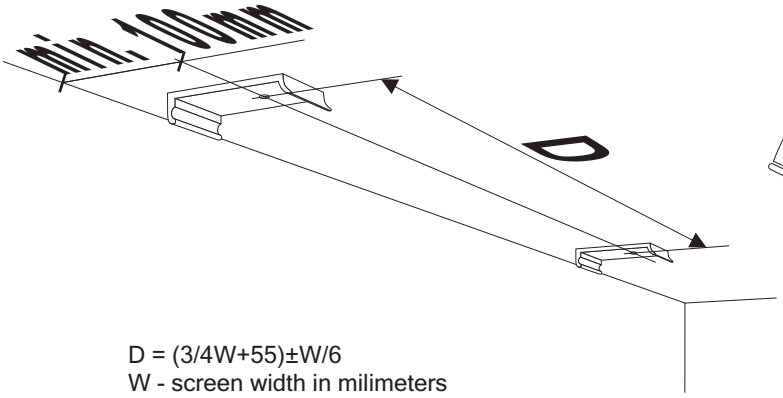
- Installation work should be carried out by a qualified technician in accordance with the instructions described below.
- Fixed installation of the screen should be done with use of the screws and anchors suitable for the walls/ceilings materials at the installation place and the genuine installation brackets delivered with the screen.
- Check carefully after installation if the screen is perfectly leveled. Do not roll out the screen not installed in horizontal position. In case the screen leveling is not perfect correct the installation.

3.2. Ceiling installation

- Appoint the location of the ceiling mount brackets fixing points.
- Drill holes for anchors fixing the screen brackets to the ceiling.
- Fix the ceiling brackets with anchors (see picture 1).

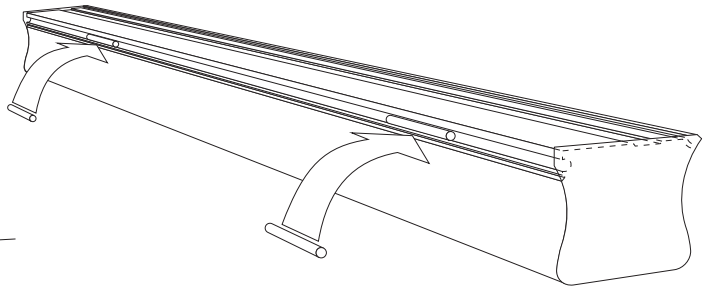
The mounting screws diameter should be not smaller than Ø8 mm. In case of the cartboard-plaster ceiling installation, use cartboard-plaster dedicated steel anchors with Ø11mm diameter screws.

- Slide screen fixing bolts into the casette chanels (see Picture 2).
- Twist the screen casette and slide the chanel onto the ceiling brackets front hinge (see Picture 3).
- Twist the screen casette back to the horizontal position (see Picture 4)
- Slide locking bolts to the lock position (see Picture 4).

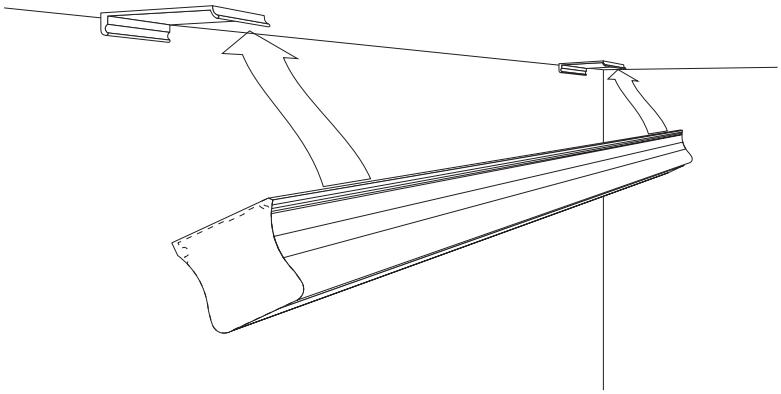


D = (3/4W+55)±W/6
W - screen width in milimeters

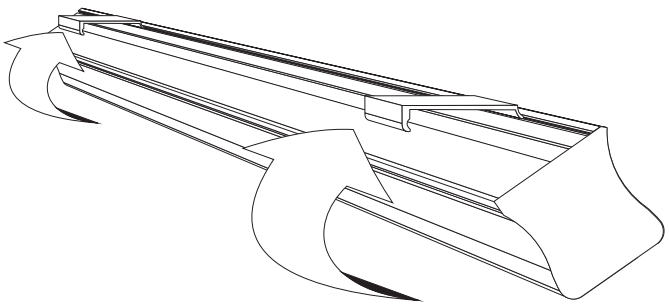
Picture 1 Fixing screen ceiling brackets



Picture 2 Screen ceiling installation - phase 1



Picture 3 Screen ceiling installation - phase 2



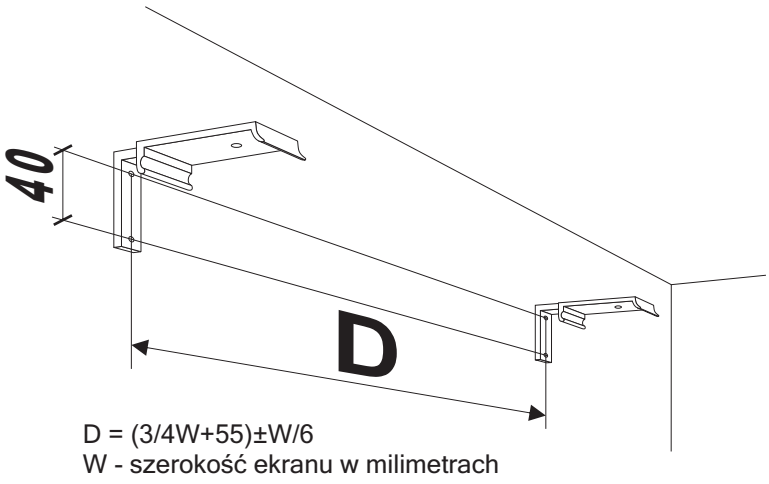
Picture 4 Screen ceiling installation - phase 3

Check the screen case leveling before first unrolling the screen.
Do not use the screen if it is not properly installed (leveled).

3.3. Wall installation

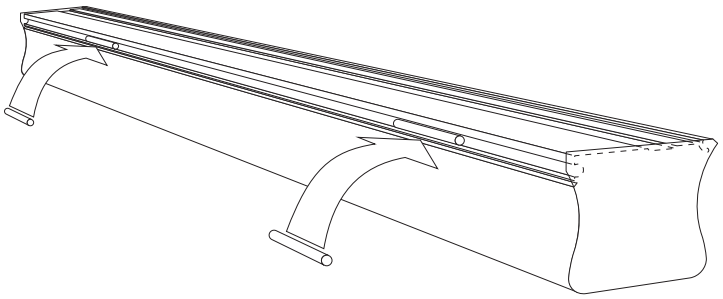
- Appoint the location of the ceiling mount brackets fixing points.
- Drill holes for anchors fixing the screen brackets to the ceiling.
- Fix the screen wall brackets to the wall with anchors (see Picture 5).

The mounting screws diameter should be not smaller than Ø8 mm. In case of the cartboard-plaster walls installation, use cartboard-plaster dedicated steel anchors with Ø11mm diameter screws.



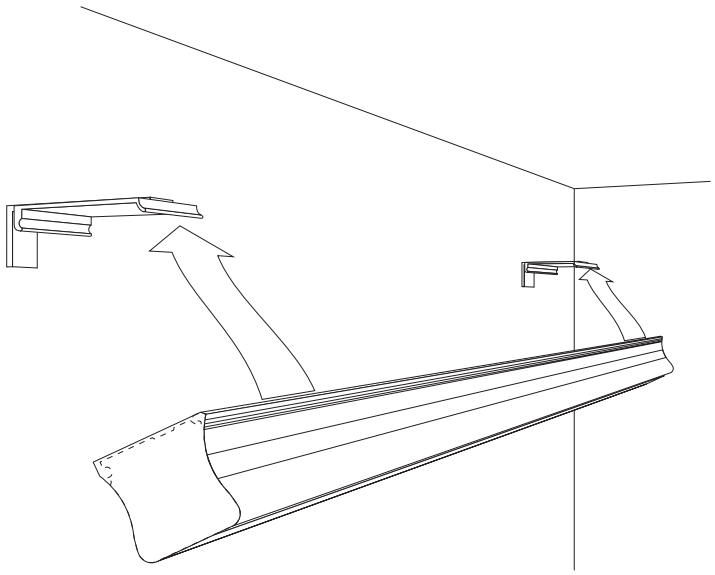
D = (3/4W+55)±W/6
W - szerokość ekranu w milimetrach

Picture 5 Fixing screen wall brackets

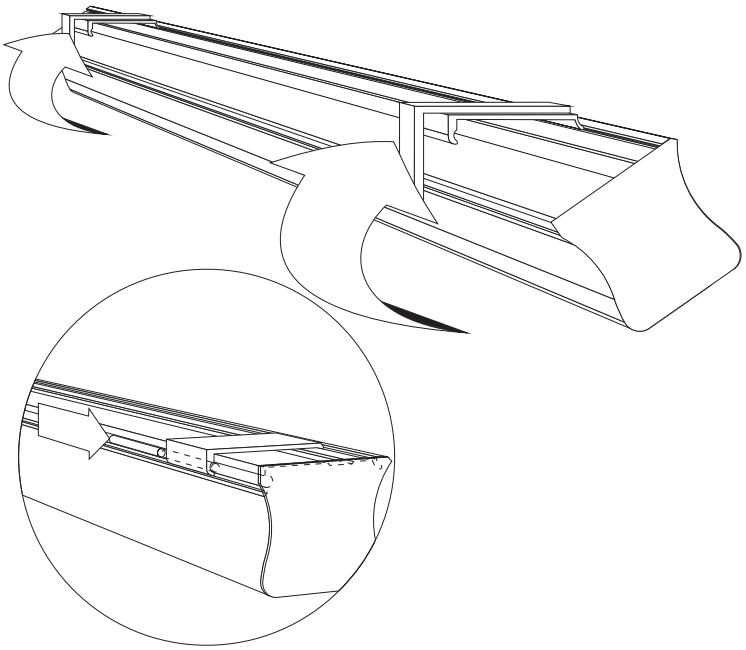


Picture 6 Screen wall installation - phase 1

- Fix the ceiling brackets and the wall brackets with the screws supplied with the screen.
- Slide screen fixing bolts into the casette chanels (see Picture 6).
- Twist the screen casette and slide the chanel onto the ceiling brackets front hinge (see Picture 7).
- Twist the screen casette back to the horizontal position (see Picture 8).
- Slide locking bolts to the lock position (see Picture 8).



Picture 7 Screen wall installation - phase 2



Picture 8 Screen wall installation - phase 3

Check the screen case leveling before first unrolling the screen.
Do not use the screen if it is not properly installed (leveled).

4. Screen operation

The screen is operated manually.

4.1 Manual operation

Rolling the screen down:
- Pull down the handle located at the screen lower. Keep moving down slowly to roll out the screen.
- Roll down the screen until the “STOP” sign will appear.
- Release the screen lower bar handle to block the screen at the position.

Rolling the screen up:
- Pull down the handle at the lower bar to release the rolling break mechanism.
- Limit the pulling strength to let the spring mechanism to roll up the screen fabrics. Do not release the handle free.
- Release the handle just before the fabrics is rolled up completely.

!!! CAUTION !!! Do not roll down the screen behind the “STOP” mark to avoid rolling mechanism blockade. Fast uncontrolled rolling up the screen can damage the mechanism or destroy the screen fabrics.

4.2. Screen maintenence

Pojection screen Avers do not require periodical service maintenance. Clean dust from the screen case and fabrics with dry soft cloths. If needed use moisturized cloth with soft detergent to remove stains. After stain removal dry the cleaned surface with cloth carefully.

4.3. Before calling the service

Symptoms	Reasons	Remedy
the screen fabrics does not roll down smoothly	The screen was not installed properly in horizontal position.	Check if the screen case is properly leveled. Reinstall the screen correctly.
It is not possible to retract the screen rolled out behind the “STOP” sign.	It is not possible to release the screen break.	Jerk down the screen lower bar several times (each jerk must be energetic and short). After each jerk lift up the screen’s lower bar.

At other cases please contact service.

5. Warranty conditions

1) Avers screens warranty period is 24 months from the date of purchase confirmed with the original purchase invoice.
2) Surety commits to fix free of charge any failures (component or production defects) of the product which appear during warranty period.
3) Warranty exclusions :
   a) the failures caused by the usage of the screen against the rules described in operation manual,
   b) the failures caused by improper storage or transportation,
   c) mechanical defects of the screen other than mentioned at point 3),
   d) damages caused with overvoltage at power network,
   e) deinstallation and reinstallation of the screen.
4) Avers Screens Service department will remove all defects within 21 days after receiving the demaged product.
5) Warranty claims should be passed to the screen supplier (dealer).

Manufactured after 13.08.2005
This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. Disposing of this product correctly will help to save valuable resources and prevent any potentialnegative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.